

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in this application:

LISTING OF CLAIMS:

Claim 1 (Original): A method for modification of color values in a page description file, the method comprising:
identifying implicit color commands within the page description file; and
converting the implicit color commands within the page description file to explicit color commands.

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Claim 2 (Original): The method of claim 1, wherein converting the implicit color commands includes converting the implicit color commands without raster image processing the page description file.

Claim 3 (Original): The method of claim 1, further comprising modifying color values specified by the explicit color commands.

Claim 4 (Original): The method of claim 1, wherein one of the implicit color commands defines reproduction of a graphic image object over a color range, and the corresponding explicit color command defines reproduction of the image object by reproduction of individual color values within the color range.

Claim 5 (Original): The method of claim 1, wherein the conversion includes converting substantially all of the implicit color commands within the page description file to explicit color commands.

Claim 6 (Original): The method of claim 1, wherein one or more of the implicit color commands is a shading command that defines a graphic image object characterized by a starting color value, an ending color value, and a shading function over a range of color values between the starting color value and the ending color value.

Claim 7 (Original): The method of claim 6, wherein the explicit color command for the shading command defines the graphic image object as a plurality of sub-objects, each of the sub-objects being assigned a color value corresponding to a color value produced by the shading function in an area of the graphic image object corresponding to the respective sub-object.

Claim 8 (Original): The method of claim 1, wherein the color values include cyan, magenta, yellow, and black color values.

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Claim 9 (Original): The method of claim 1, wherein the explicit color commands, upon raster imaging processing, define visual output that is analogous to visual output defined by the corresponding implicit color commands.

Claim 10 (Original): A computer-implemented system for modification of color values in a page description file, the system comprising a processor that is programmed to:
identify implicit color commands within the page description file; and
convert the implicit color commands within the page description file to explicit color commands.

Claim 11 (Original): The system of claim 10, wherein the processor is programmed to convert the implicit color commands without raster image processing the page description file.

Claim 12 (Original): The system of claim 10, wherein the processor is programmed to modify color values specified by the explicit color commands within the page description file.

Claim 13 (Original): The system of claim 10, wherein one of the implicit color commands defines reproduction of a graphic image object over a color range, and the corresponding explicit color command defines reproduction of the image object by reproduction of individual color values within the color range.

Claim 14 (Original): The system of claim 10, wherein the processor converts substantially all implicit color commands within the page description file to explicit color commands.

Claim 15 (Original): The system of claim 10, wherein one or more of the implicit color commands is shading command that defines a graphic image object characterized by a starting color value, an ending color value, and a shading function over a range of color values between the starting color value and the ending color value.

Claim 16 (Original): The system of claim 15, wherein the explicit color command for the shading command defines the graphic image object as a plurality of sub-objects, each of the sub-objects being assigned a color value corresponding to a color value produced by the shading function in an area of the graphic image object corresponding to the respective sub-object.

Claim 17 (Original): The system of claim 10, wherein the color values include cyan, magenta, yellow, and black color values.

Claim 18 (Original): A computer-readable medium storing program code that upon execution by a processor:

identifies implicit color commands within the page description file; and converts implicit color commands within the page description file to explicit color commands.

Claim 19 (Original): The computer-readable medium of claim 18, wherein the program code is arranged to convert the implicit color commands without raster image processing the page description file.

Claim 20 (Original): The computer-readable medium of claim 18, wherein the program code is configured to modify color values specified by the explicit color commands within the page description file.

Claim 21 (Original): The computer-readable medium of claim 18, wherein one of the implicit color commands defines reproduction of an image object over a color range, and the corresponding explicit color command defines reproduction of the image object by reproduction of individual color values within the color range.

Claim 22 (Original): The computer-readable medium of claim 18, wherein the program code is configured such that the processor converts substantially all implicit color commands within the page description file to explicit color commands.

Claim 23 (Original): The computer-readable medium of claim 18, wherein one or more of the implicit color commands is a shading command that defines a graphic image object characterized by a starting color value, an ending color value, and a shading function over a range of color values between the starting color value and the ending color value.

Claim 24 (Original): The computer-readable medium of claim 23, wherein the explicit color command for the shading command defines the graphic image object as a plurality of sub-objects, each of the sub-objects being assigned a color value corresponding to a color value produced by the shading function in an area of the image object corresponding to the respective sub-object.

Claim 25 (Original): The computer-readable medium of claim 18, wherein the color values include cyan, magenta, yellow, and black color values.

Claim 26 (Original): A method for modification of color values in a page description file, the method comprising:

identifying implicit color commands within the page description file; and
converting each of the implicit color commands within the page description file to a plurality of implicit color sub-commands,
wherein each of the implicit color commands pertains to a spatial area, and each of the implicit color sub-commands pertains to a sub-section within the spatial area.

Claim 27 (Original): The method of claim 26, wherein converting the implicit color commands includes converting the implicit color commands without raster image processing the page description file.

Claim 28 (Original): The method of claim 26, further comprising modifying color values specified by the implicit color sub-commands.

Claim 29 (Original): The method of claim 26, wherein the conversion includes converting substantially all of the implicit color commands within the page description file to implicit color sub-commands.

Claim 30 (Original): The method of claim 26, wherein the conversion includes converting some of the implicit color commands within the page description file to implicit color sub-commands, and converting others of the implicit color commands to explicit color commands.

Claim 31 (Original): The method of claim 26, wherein the color values include cyan, magenta, yellow and black color values.

Claim 32 (Original): A computer-implemented system for modification of color values in a page description file, the system comprising a processor that is programmed to:

identify implicit color commands within the page description file; and convert each of the implicit color commands within the page description file to a plurality of implicit color sub-commands,

wherein each of the implicit color commands pertains to a spatial area, and each of the implicit color sub-commands pertains to a sub-section within the spatial area.

Claim 33 (Original): The system of claim 32, wherein converting the implicit color commands includes converting the implicit color commands without raster image processing the page description file.

Claim 34 (Original): The system of claim 32, further comprising modifying color values specified by the implicit color sub-commands.

Claim 35 (Original): The system of claim 32, wherein the conversion includes converting substantially all of the implicit color commands within the page description file to implicit color sub-commands.

Claim 36 (Original): The system of claim 32, wherein the conversion includes converting some of the implicit color commands within the page description file to implicit color sub-commands, and converting others of the implicit color commands to explicit color commands.

Claim 37 (Original): The system of claim 32, wherein the color values include cyan, magenta, yellow, and black color values.

Claim 38 (Original): A computer-readable medium storing program code that upon execution by a processor:

identifies implicit color commands within the page description file; and converts each of the implicit color commands within the page description file to a plurality of implicit color sub-commands,

wherein each of the implicit color commands pertains to a spatial area, and each of the implicit color sub-commands pertains to a sub-section within the spatial area.

Claim 39 (Original): The computer-readable medium of claim 38, wherein the conversion of the implicit color commands includes converting the implicit color commands without raster image processing the page description file.

Claim 40 (Original): The computer-readable medium of claim 38, wherein the program code is arranged to, upon execution by a processor, modify color values specified by the implicit color sub-commands.

Claim 41 (Original): The computer-readable medium of claim 38, wherein the conversion includes converting substantially all of the implicit color commands within the page description file to implicit color sub-commands.

Claim 42 (Original): The computer-readable medium of claim 38, wherein the conversion includes converting some of the implicit color commands within the page description file to implicit color sub-commands, and converting others of the implicit color commands to explicit color commands.

Claim 43 (Original): The computer-readable medium of claim 38, wherein the color values include cyan, magenta, yellow, and black color values.

Claim 44 (Original): A method of modification of color values in a page description file, the method comprising:

accessing implicit color commands within the page description file; and modifying explicit color values specified by the implicit color commands within the page description file without RIP-converting the page description file.

Claim 45 (Original): A computer-implemented system for modification of color values in a page description file, the system comprising a processor that is programmed to:

access implicit color commands within the page description file; and
modify explicit color values specified by the implicit color commands within the page description file without RIP-converting the page description file.

Claim 46 (Original): A computer-readable medium storing program code that upon execution by a processor:

accesses implicit color commands within the page description file; and
modifies explicit color values specified by the implicit color commands within the page description file without RIP-converting the page description file.

Claim 47 (New): A method for modification of color values in a page description file having implicit color commands that specify color values as a function of graphic information and color reference values, the method comprising:

identifying the implicit color commands within the page description file; and
converting the implicit color commands within the page description file to explicit color commands within the page description file that specify explicit color values without raster image processing the page description file.

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Claim 48 (New): A method for modification of color values in a page description file, the method comprising:

parsing the page description file to identify implicit color commands that provide implicit definitions of color values;

for each of the identified implicit color commands, generating an explicit color command that approximates the function and content defined by the identified implicit color command;

replacing each of the identified implicit color commands within the page description file with the corresponding explicit command.

Claim 49 (New): The method of claim 48, further comprising leaving intact implicit spatial commands within the page description file without converting the implicit spatial commands to explicit spatial commands.
